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L2: Entry 110 of 326

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DOCUMENT-IDENTIFIER: JP 09117567 A  
TITLE: KEEPING DEVICE FOR COIN FOR GAME CENTER

PUBN-DATE: May 6, 1997

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KK YUNIKA

APPL-NO: JP08223933

APPL-DATE: August 26, 1996

INT-CL (IPC): A63 F 7/02; G07 F 7/12

## ABSTRACT:

PROBLEM TO BE SOLVED: To provide a device for performing the unmanned reception and pay- out jobs of coins exclusively for a game center in the game center.

SOLUTION: This device is provided with a reception part 1 for receiving the coins, a pay-out part 2 for paying out the coins, the input part (image scanner) 32a of the optical data of the palmprint or the fingerprint of a depositor, a magnetic card issuance part 7a, a card input part 33a and a processing part 5a for performing a prescribed control processing. A magnetic card in which the optical data of the depositor and a reception number are recorded issued at the time of reception, personal confirmation at the time of paying out is performed by the matching of the recorded data of magnetic card and the optical data of an individual and the pay-out of a person other than the individual is made impossible.

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(11)特許出願公開番号

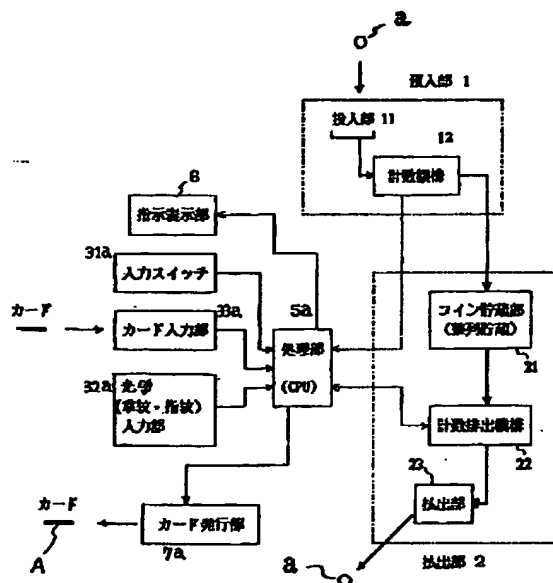
(43)公開日 平成9年(1997)5月6日

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## 【特許請求の範囲】

【請求項1】 コイン投入部と投入されたコインの計数機構からなる預入部と、コイン貯蔵部とコイン計数排出機構とコインの取り出しが可能なコイン払出部とからなる払出部と、掌紋又は指紋の光学的入力機構からなる光学入力部と、預入の際に預入部データと入力部データを磁気メモリとして記録した磁気カードを発行するカード発行部と、前記カードのデータ読み取りを行うカード入力部と、光学入力部データとカードデータに基づいて払出の適否の判別をなす機能並びに預入部及び払出部の動作制御機能を有せしめた処理部とを備えたことを特徴とするゲームセンター用コイン預かり装置。

## 【発明の詳細な説明】

## 【0001】

【産業上の利用分野】本発明は、ゲームセンターに設置する当該ゲームセンター専用のコインを預かるコイン預かり装置に関するものである。

## 【0002】

【従来の技術】ゲームセンターは、各種のゲーム機器を備えており、プレイヤー（顧客）は、ゲームセンター独自のコインに両替し、使用したいゲーム機に当該コインを所定数投入し、当該ゲーム機を遊戯に供するものである。ところで、ゲーム機によってはコインが増加して戻る機器もあり、両替したコインを全て使用しないでゲーム機による遊戯を取り止める場合がある。その際コインは、ゲームセンター外への持ち出しは禁止されている。即ちコインは一定の貨幣価値を具備しているため、ゲームセンター外でのコインの譲渡は明らかに法で禁止されている賭博行為となるからである。

【0003】そこでコインが余った場合には、ゲームセンターで預かり、当該者の次の入場の際に、預かっているコインの払出しを行っているものであり、この預入払出の手続きは、ゲームセンターの職員の手で行われている。

## 【0004】

【発明が解決しようとする課題】前記のコイン預入払出は、必ず預け入れた本人にしなければならないもので、本人以外への払出しは当然賭博行為となってしまう。現状は預入払出を人間の手で行い、預入払出業務に携わる職員による本人確認を行っている。この預入払出業務を無人化する為に、従前より広く銀行等で使用されている自動払出し装置を使用せんとした場合、従来の自動払出装置は、口座番号と暗証番号の一致で、引き出し者の適否を判別しているため、前記装置をその儘ゲームセンター用コインの預け入れ装置に適用しても、暗証番号等の告知を伴う店外譲渡が可能で、賭博行為を防止することができない。そこで本発明は、必ず預け入れた本人にしか払出しを行わないゲームセンター用コインの預かり装置を提案したものである。

## 【0005】

【課題を解決するための手段】本発明に係るゲームセンター用コインの預かり装置は、コイン投入部と投入されたコインの計数機構からなる預入部と、コイン貯蔵部とコイン計数排出機構とコインの取り出しが可能なコイン払出部とからなる払出部と、掌紋又は指紋の光学的入力機構からなる光学入力部と、預入の際に預入部データと入力部データを磁気メモリとして記録した磁気カードを発行するカード発行部と、前記カードのデータ読み取りを行うカード入力部と、光学入力部データとカードデータに基づいて払出の適否の判別をなす機能並びに預入部及び払出部の動作制御機能を有せしめた処理部とを備えたことを特徴とするものである。

## 【0006】

【作用】預け入れ際して本人の掌紋等の光学データと預け入れコイン数を磁気カードに記録して当該カードを発行し、払出時の本人確認を本人の掌紋等の光学データと、カードの記録データとの照合で行い、コインの払出に際しては、磁気カードをカード入力部に差し込むことによるカードデータと掌紋又は指紋の光学的入力機構からなる光学入力部から読み取られたデータとを照合し、これが合致した時に本人と判別して所定のコインを払出部より払い出す。

## 【0007】

【実施例】次に本発明の実施例について説明する。図1及び図2は本発明の実施例を示したもので、この実施例のゲームセンター用コインの預かり装置は、独立したボックスタイプの装置で、預入部1、払出部2、処理部5a、指示表示部6、カード入力部33a、光学入力部32a、カード発行部7aをボックス本体8aに組み込んだものである。

【0008】預入部1は、ボックス本体8aの表面に設けたコイン投入部11と、投入されたコインaを計数する計数機構12からなり、払出部2は、投入されたコインを整列状態で貯蔵するコイン貯蔵部21と、処理部5の制御で所定数のコインを貯蔵部21から排出するコイン計数排出機構22と、ボックス本体8aの表面にコインの取り出しを可能としたコイン払出部23からなる。

【0009】入力部3aは、コインの預入払出を行おうとする者の意思を入力するための入力スイッチ31aと、装置使用者の掌紋を検知するイメージスキャナ（光学入力部）32aと、磁気カードAのデータを読み取るカードリーダーを備えたカード入力部33aから構成される。

【0010】カード発行部7aは、イメージスキャナ32aのデータ並びに、預入部1の計数データを磁気メモリとしてカードAに記録して、カードAを預入者に発行するものである。

【0011】処理部5aは、適当な処理能力を備えたCPUで、適宜なプログラムを組み込んだパソコンを利用して良く、前記の預入部1、払出部2、入力部3a、

指示表示部6、カード発行部7aの動作制御並びに、カード入力部33a入力と、イメージスキャナ32からのイメージデータの一致の判別を行うものである。

【0012】指示表示部6は、ボックス本体8aに設けた適宜な表示機で、使用者に使用手順を指示するものであり、コインを預け入れようとする者は、指示表示部6の指示で、入力スイッチ31aより装置作動を指示し、指示表示部6は、投入部11へのコインaの投入並びにイメージスキャナ32a上へ掌を載置することを指示する。

【0013】預入者が前記指示表示部6指示通りに実施すると、装置は投入されたコイン（預入コイン）aを計数し、掌紋イメージデータと、預入コイン数を磁気カードAに記録して、発行部7aから発行される。

【0014】次に払い戻しに際しては、同様に指示表示部6の指示による入力スイッチ31aを操作し、預入時に発行された磁気カードAをカード入力部33aに差し込み、カードリーダーで当該カードの磁気租記録を読み取り、同時に掌をイメージスキャナ32a上に載置すると、当該カードの掌紋データとイメージスキャナ32aの掌紋イメージの一致を確認し、預入コインの払出が行われるものである。この払出は、預入コイン全額でも良いが入力スイッチ31aからの信号で、残高を残して払出を終了しても良くその際は、残高並びに預入者の掌紋等の光学データを記録した磁気カードを発行するものである。

【0015】従って預入者が第三者に預入コインの権利を店外で自由に譲渡できず、必ず預入者本人でなければ預入コインの払出しができないので、賭博行為が発生する虞がなく、且つ預入払出の自動化が実現したものであり、装置に預入者の掌紋や指紋の光学データを保持しておくメモリ部を必要としない利点がある。

【0016】尚、本発明は前記実施例に限定されるもの

ではなく、本発明は、特に磁気カード入力部と掌紋又は指紋の光学的入力機構からなる入力データに基づく預入者本人の一致が確認できるものであれば、コインの預入機構並びに払出機構の具体的構成自体は任意に定めることができるものである。

【0017】

【発明の効果】以上のように本発明は、ゲームセンター用のコインの預け入れの機械化に際して、本人確認に掌紋又は指紋の光学的データを直接光学入力部から読み取ったデータと過去に読み取ったカードに記録されたデータとの照合することにより本人か否かを判別するように構成したので、預入者本人以外への払出しができないようにして、賭博行為の発生を防止し、コイン預入払出業務の自動化を達成したものである。

【図面の簡単な説明】

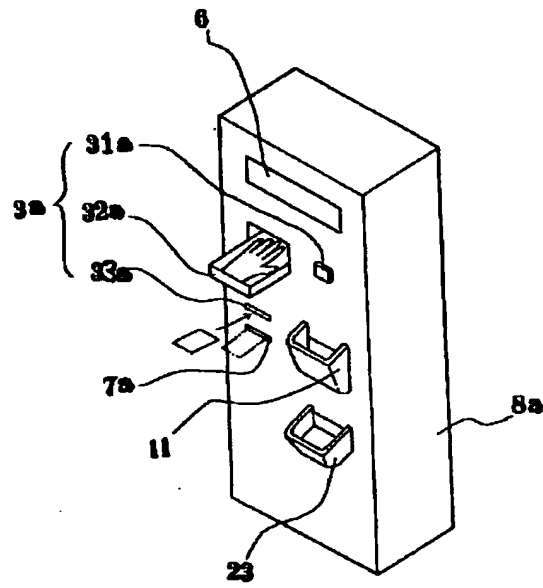
【図1】 本発明の実施例装置の外観図。

【図2】 同実施例装置の構成を示すブロック図。

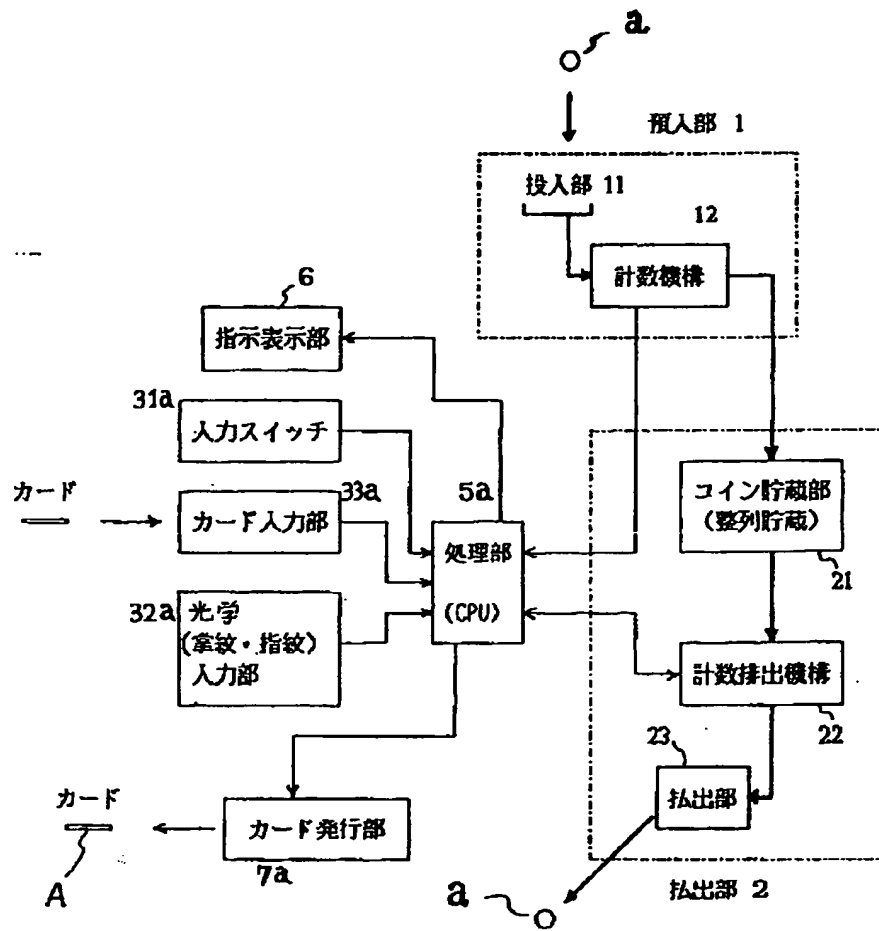
【符号の説明】

- 1 預入部
- 2 払出部
- 5a 処理部
- 6 指示表示部
- 7a カード発行部
- 8a ボックス本体
- 11 投入部
- 12 計数機構
- 21 コイン貯蔵部
- 22 計数排出機構
- 23 払出部
- 3a 入力部
- 31a 入力スイッチ
- 32a イメージスキャナ
- 33a カード入力部

【図1】



【図2】



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CLAIMS

[Claim(s)]

[Claim 1] Coin custody equipment for game centers characterized by providing the following. The making a deposit section which consists of a counting mechanism of the coin injection section and thrown-in coin a coin stores dept. and coin -- counting -- the expenditure section which consists of a discharge device and the coin expenditure section in which ejection of coin is possible The optical input section which consists of an optical input device of palm print or a fingerprint The card issue section which publishes a magnetic card which recorded making a deposit section data and input section data as magnetic memory on the occasion of making a deposit, the card input section which performs data reading of said card, and the processing section which made a functional list which distinguishes propriety of expenditure based on optical input section data and card data have a moving control function of the making a deposit section and the expenditure section

[Translation done.]



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DETAILED DESCRIPTION

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[Detailed Description of the Invention]

[0001]

[Industrial Application] This invention relates to the coin custody equipment which keeps the coin only for the game centers concerned installed in a game center.

[0002]

[Description of the Prior Art] The game center is equipped with various kinds of game devices, and a player (customer) carries out the predetermined number injection of the coin concerned at a game machine to exchange and use for coin original with a game center, and it presents play with the game machine concerned. By the way, the play by the game machine may be canceled without there being also a device by which coin increases and returns depending on a game machine and using all the exchanged coin. Carrying out out of a game center is forbidden for coin in that case. That is, it is because coin possesses fixed monetary value, so transfer of the coin in the outside of a game center serves as a gamble action clearly forbidden by law.

[0003] So, when coin remains, the coin which kept in the game center and has been kept in the case of entrance of the next time of the person concerned is paid out, and procedure of this making a deposit expenditure is performed by the hand of the personnel of a game center.

[0004]

[Problem(s) to be Solved by the Invention] what must make the aforementioned coin making a deposit expenditure him who surely deposited -- it is -- him -- naturally expenditure of an except will become a gamble action. him by the personnel who the present condition performs making a deposit expenditure by human being's hand, and are engaged in making a deposit expenditure business -- it is checking. In order to fully automate this making a deposit expenditure business, when the automatic expenditure equipment currently used in the bank etc. more widely than old tends to be used, conventional automatic expenditure equipment By coincidence of the account number and a personal identification number, since a drawer person's propriety is distinguished, even if it applies said equipment to the deposit equipment of the coin for \*\* game centers, the transfer store outside accompanied by the notice of a personal identification number etc. is possible, and a gamble action cannot be prevented. Then, this invention proposes the custody equipment of the coin for game centers which pays out only him who surely deposited.

[0005]

[Means for Solving the Problem] Custody equipment of coin for game centers concerning this invention the making a deposit section which consists of a counting mechanism of the coin injection section and thrown-in coin, a coin stores dept., and coin -- counting -- with the expenditure section which consists of a discharge device and the coin expenditure section in which ejection of coin is possible The optical input section which consists of an optical input device of palm print or a fingerprint, and the card issue section which publishes a magnetic card which recorded making a deposit section data and input section data as magnetic memory on the occasion of making a deposit, It is characterized by having the card input section which performs data reading of said card, and the processing section which made a functional list which distinguishes propriety of expenditure based on optical input section data and card data have a moving control function of the making a deposit section and the expenditure section.

[0006]

[Function] the deposit time -- carrying out -- optical data, such as his palm print, -- depositing -- the number of coin -- a magnetic card -- recording -- the card concerned -- publishing -- him at the time of expenditure -- a check with optical data, such as his palm print Carry out by collating with the record data of a card, and expenditure of coin is faced. When the data read in the optical input section which consists of an optical input device of the card data based on inserting a magnetic card in the card input section, palm print, or a fingerprint is collated and this agrees, it distinguishes from him and predetermined coin is paid out of the expenditure section.

[0007]

[Example] Next, the example of this invention is explained. Drawing 1 and drawing 2 are what showed the example of this invention, and the custody equipment of the coin for game centers of this example is equipment independent box type, and includes the making a deposit section 1, the expenditure section 2, processing section 5a, the directions display 6, card input section 33a, optical input section 32a, and card fermentation section 7a in box main part 8a.

[0008] The making a deposit section 1 consists of a counting mechanism 12 which carries out counting of the thrown-in coin a to the coin injection section 11 prepared in the surface of box main part 8a. The expenditure section 2 the coin which discharges the coin of a predetermined number from a stores dept. 21 by control of the coin stores dept. 21 which stores the thrown-in coin in the state of alignment, and the processing section 5 -- counting -- it becomes the discharge device 22 and the surface of box main part

8a from the coin expenditure section 23 which made ejection of coin possible.

[0009] Input section 3a consists of input switch 31a for inputting the intention of those who are going to perform making a deposit expenditure of coin, image scanner (optical input section) 32a which detects an equipment user's palm print, and card input section 33a equipped with the card reader which reads the data of magnetic-card A.

[0010] Card issue section 7a is recorded on Card A by using the enumeration data of the making a deposit section 1 as magnetic memory, and publishes Card A to a making a deposit person at the data list of image scanner 32a.

[0011] Processing section 5a is CPU equipped with the suitable throughput, may use the personal computer incorporating a proper program, and distinguishes coincidence of the image data from an image scanner 32 from a card input section 33a input in the motion-control list of the aforementioned making a deposit section 1, the expenditure section 2, input section 3a, the directions display 6, and card issue section 7a.

[0012] The directions display 6 is the proper display machine formed in box main part 8a, and those who direct the procedure used to a user and are going to deposit coin direct equipment actuation from input switch 31a with directions of the directions display 6, and it directs that the directions display 6 lays a palm in the injection list of the coin a to the injection section 11 to up to image scanner 32a.

[0013] If a making a deposit person carries out as said directions display 6 directions, equipment will carry out counting of the thrown-in coin (making a deposit coin) a, will record the number of making a deposit coin on magnetic-card A with a palm-print image data, and will be published from issue section 7a.

[0014] Next, if operate input switch 31a by directions of the directions display 6 similarly, magnetic-card A published at the time of making a deposit is inserted in card input section 33a on the occasion of a repayment, magnetic rough record of the card concerned is read with a card reader and a palm is laid on image scanner 32a at coincidence, the palm-print data of the card concerned and coincidence of the palm-print image of image scanner 32a will be checked, and expenditure of making a deposit coin will be performed. Although the making a deposit coin total amount is sufficient as this expenditure, it is a signal from input switch 31a, it may leave the balance, may end expenditure and publishes the magnetic card which recorded optical data, such as a making a deposit person's palm print, on the balance list in that case.

[0015] therefore, a making a deposit person -- a third person -- the right of making a deposit coin -- the outside of a store -- free -- it cannot transfer -- surely -- a making a deposit person -- since expenditure of making a deposit coin cannot be performed if it is not him, there is no possibility that a gamble action may occur, and automation of making a deposit expenditure is realized, and there is an advantage which does not need the memory section holding the optical data of a making a deposit person's palm print or a fingerprint for equipment.

[0016] in addition, the making a deposit person based on the input data with which this invention is not limited to said example, and especially this invention consists of an optical input device of the magnetic-card input section, palm print, or a fingerprint -- if his coincidence can be checked, the concrete configuration of an expenditure device itself can be set to the making a deposit device list of coin at arbitration.

[0017]

[Effect of the Invention] Mechanization of a deposit of the coin for game centers is faced this invention as mentioned above. Since it constituted so that it might distinguish whether you are him by [ of the data which read the optical data of palm print or a fingerprint in the direct optical input section at the he check, and the data recorded by the card which read in the past ] collating a making a deposit person -- him -- as expenditure of an except cannot be performed, generating of a gamble action is prevented, and automation of coin making a deposit expenditure business is attained.

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TECHNICAL FIELD

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[Industrial Application] This invention relates to the coin custody equipment which keeps the coin only for the game centers concerned installed in a game center.

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.....  
PRIOR ART  
.....

[Description of the Prior Art] The game center is equipped with various kinds of game devices, and a player (customer) carries out the predetermined number injection of the coin concerned at a game machine to exchange and use for coin original with a game center, and it presents play with the game machine concerned. By the way, the play by the game machine may be canceled without there being also a device by which coin increases and returns depending on a game machine and using all the exchanged coin. Carrying out out of a game center is forbidden for coin in that case. That is, it is because coin possesses fixed monetary value, so transfer of the coin in the outside of a game center serves as a gamble action clearly forbidden by law.

[0003] So, when coin remains, the coin which kept in the game center and has been kept in the case of entrance of the next time of the person concerned is paid out, and procedure of this making a deposit expenditure is performed by the hand of the personnel of a game center.

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DESCRIPTION OF DRAWINGS  
.....

[Brief Description of the Drawings]

[Drawing 1] The external view of the example equipment of this invention.

[Drawing 2] The block diagram showing the configuration of this example equipment.

[Description of Notations]

- 1 Making a Deposit Section
- 2 Expenditure Section
- 5a Processing section
- 6 Directions Display
- 7a Card issue section
- 8a Box main part
- 11 Injection Section
- 12 Counting Mechanism
- 21 Coin Stores Dept.
- 22 Counting -- Discharge Device
- 23 Expenditure Section
- 3a Input section
- 31a Input switch
- 32a Image scanner
- 33a Card input section

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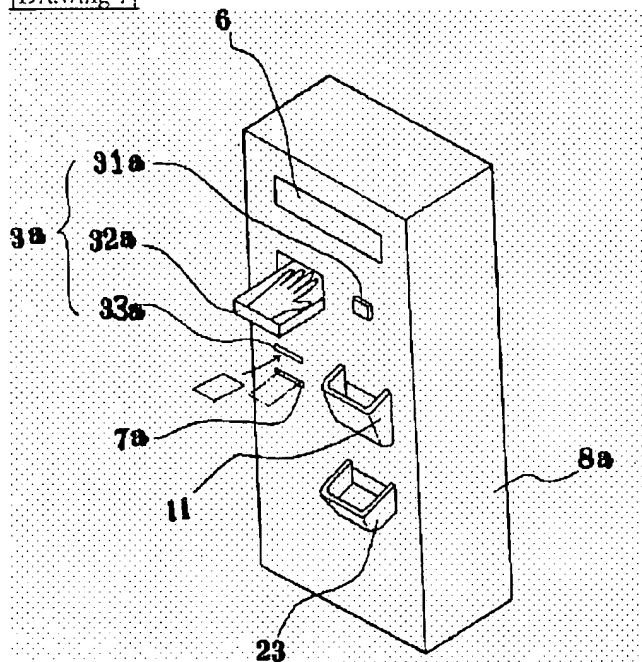
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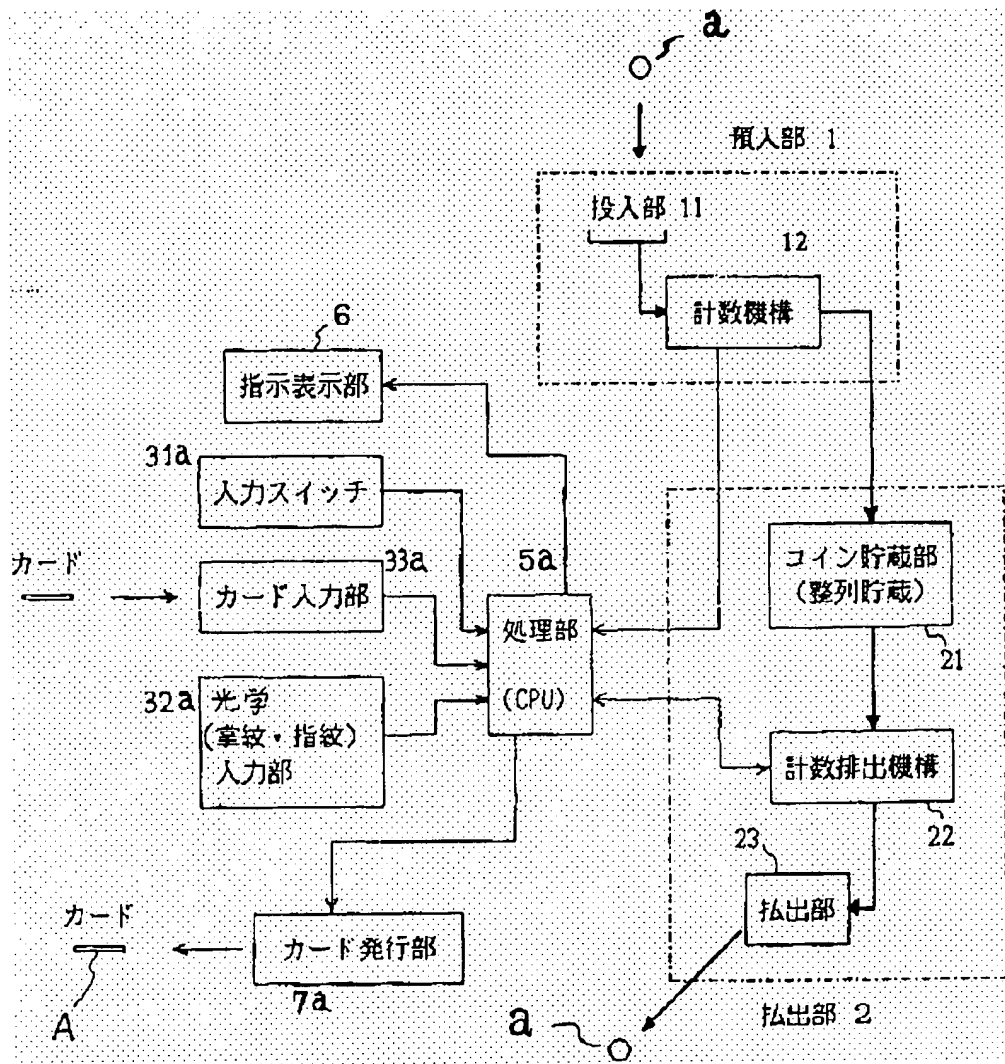
**DRAWINGS**

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[Drawing 1]



[Drawing 2]



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3. In the drawings, any words are not translated.

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CORRECTION OR AMENDMENT

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[Official Gazette Type] Printing of amendment by the convention of 2 of Article 17 of patent law  
 [Section partition] The 2nd partition of the 1st section  
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[Procedure revision]

[Filing Date] December 1, Heisei 12 (2000. 12.1)

[Procedure amendment 1]

[Document to be Amended] Specification

[Item(s) to be Amended] Claim

[Method of Amendment] Modification

[Proposed Amendment]

[Claim(s)]

[Claim 1] The making a deposit section which carries out counting of the coin thrown in from the coin injection section, and receives it,

Counting of the received coin is carried out and it is the expenditure section in which predetermined number discharge is possible,

The input section which reads enumeration data of said making a deposit section recorded on data and a card of palm print recorded on a card, or a fingerprint while detecting an equipment user's palm print or a fingerprint,

Custody equipment of coin for game centers characterized by having the processing section which distinguishes propriety of expenditure from said detected palm print or fingerprint, said read palm print, or a fingerprint, and controls discharge of said expenditure section based on enumeration data of said read making a deposit section.

[Procedure amendment 2]

[Document to be Amended] Specification

[Item(s) to be Amended] 0005

[Method of Amendment] Modification

[Proposed Amendment]

[0005]

[Means for Solving the Problem] This invention is characterized by providing the following in invention of claim 1, in order to solve the above-mentioned technical problem. The making a deposit section which carries out counting of the coin thrown in from the coin injection section, and receives it Counting of the received coin is carried out and it is the expenditure section in which predetermined number discharge is possible. The input section which reads enumeration data of said making a deposit section recorded on data and a card of palm print recorded on a card, or a fingerprint while detecting an equipment user's palm print or a fingerprint The processing section which distinguishes propriety of expenditure from said detected palm print or fingerprint, said



read palm print, or a fingerprint, and controls discharge of said expenditure section based on enumeration data of said read making a deposit section

[Procedure amendment 3]

[Document to be Amended] Specification

[Item(s) to be Amended] 0006

[Method of Amendment] Modification

[Proposed Amendment]

[0006]

[Function] him at the time of expenditure -- collating with the data of the palm print recorded on detection and the card of his palm print etc. in the check, or a fingerprint -- carrying out -- him -- when a check is completed, based on the enumeration data of the making a deposit section currently recorded on the card, predetermined number discharge of the coin is carried out from the expenditure section.

[Procedure amendment 4]

[Document to be Amended] Specification

[Item(s) to be Amended] 0017

[Method of Amendment] Modification

[Proposed Amendment]

[0017] above -- mechanization of the deposit of the coin for game centers in this invention -- facing -- him at the time of expenditure -- collating with the data of the palm print recorded on detection and the card of his palm print or a fingerprint in the check, or a fingerprint -- carrying out -- him -- when a check was completed, based on the enumeration data of the making a deposit section currently recorded on the card, it was made to carry out predetermined number discharge of the coin from the expenditure section. Therefore, as expenditure of those other than a making a deposit person cannot be performed, generating of a gamble action can be prevented, and automation of coin deposit expenditure business can be attained.

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[Translation done.]